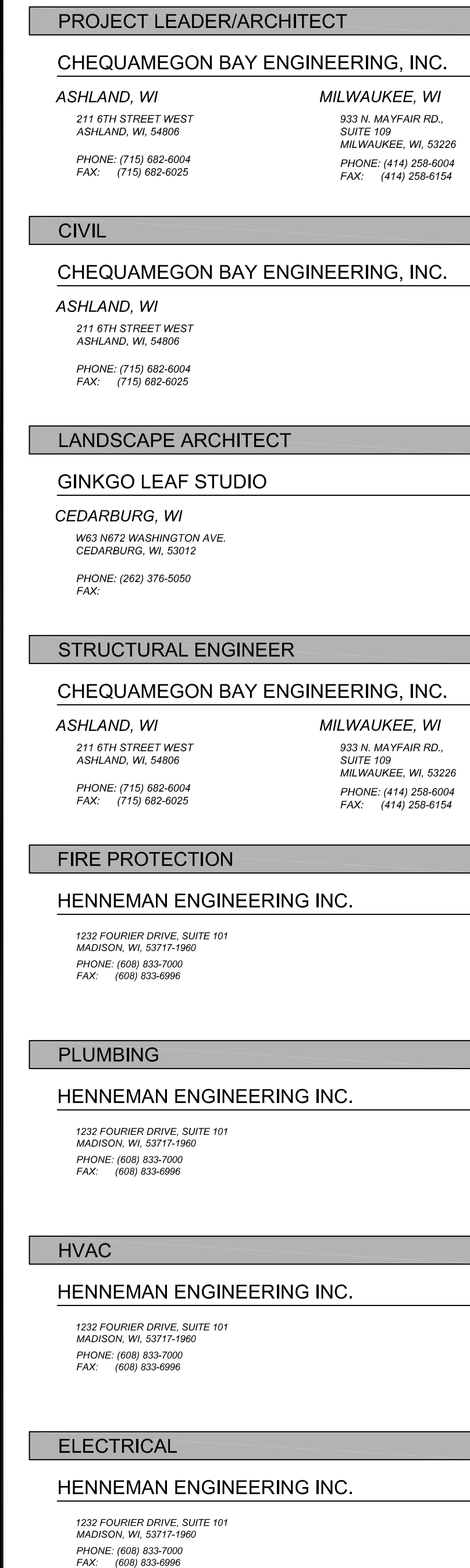


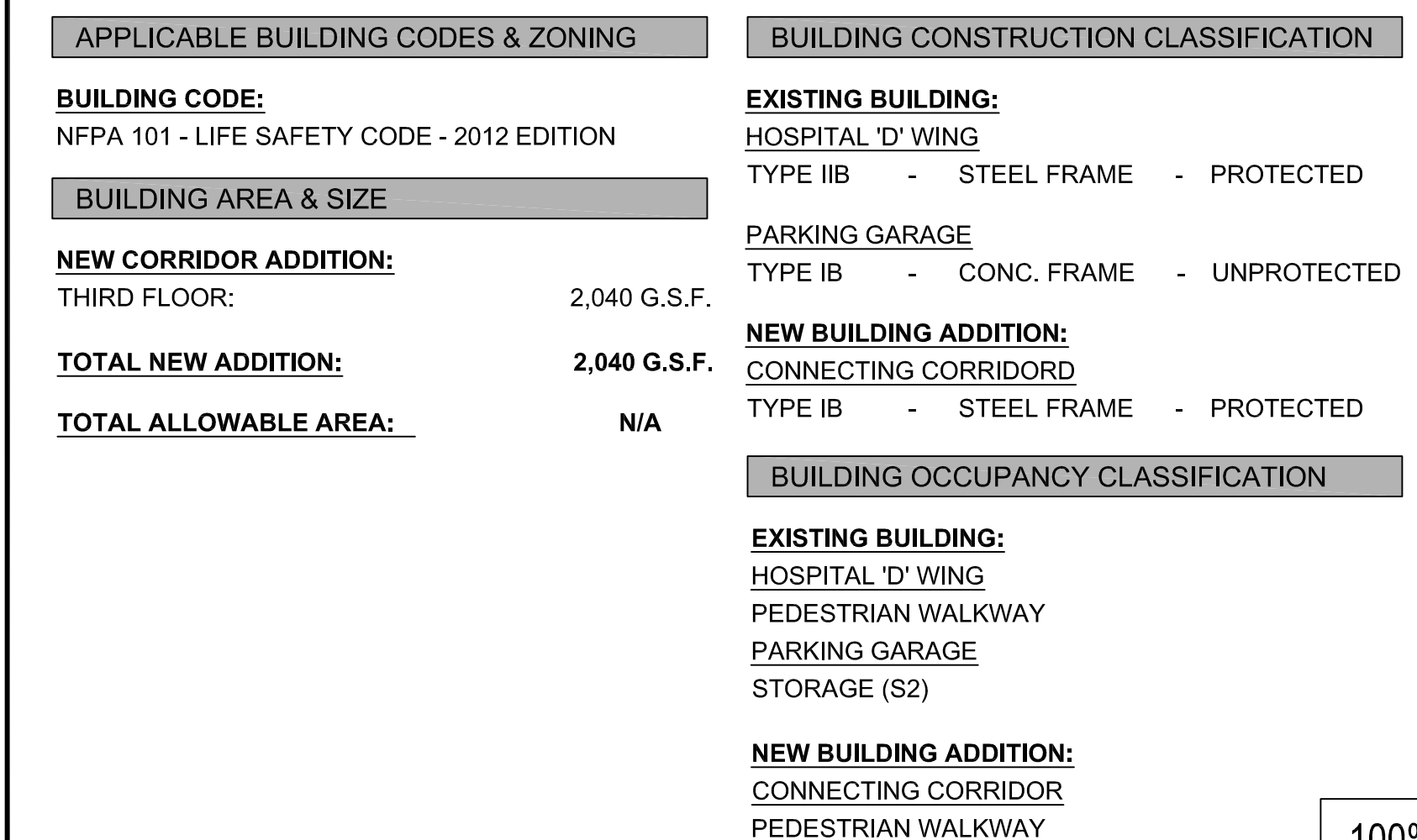
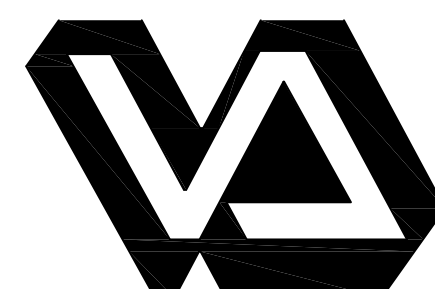
PATIENT ENTRANCE CANOPY/MENTAL HEALTH CONNECTING CORRIDOR
PROJECT NO.: 607-CSI-103

SHEET INDEX



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C102	SITE IMPROVEMENTS
C103	RETAINING WALL, GRADING, CONSTRUCTION FENCE & EROSION CONTROL PLAN
C104	CONSTRUCTION PHASING PLAN
C105	CIVIL DETAILS
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E103	CONNECTING CORRIDOR - CORRIDOR LEVEL PLAN
E301	ELECTRICAL SCHEDULES & DETAILS

PROJECT SUMMARY AND CODE INFORMATION

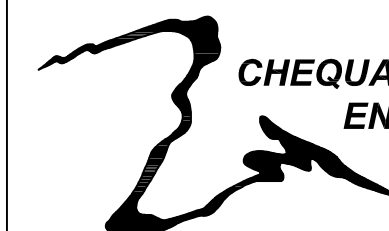
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Drawing Title	Titlesheet, Project Information & Sheet Index
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Approved: Project Director

Project Title	Patient Entrance Canopy/ Mental Health Connecting Corridor
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	Location

Date
April 12, 2012

Checked By: WGK	Drawn By: KJS
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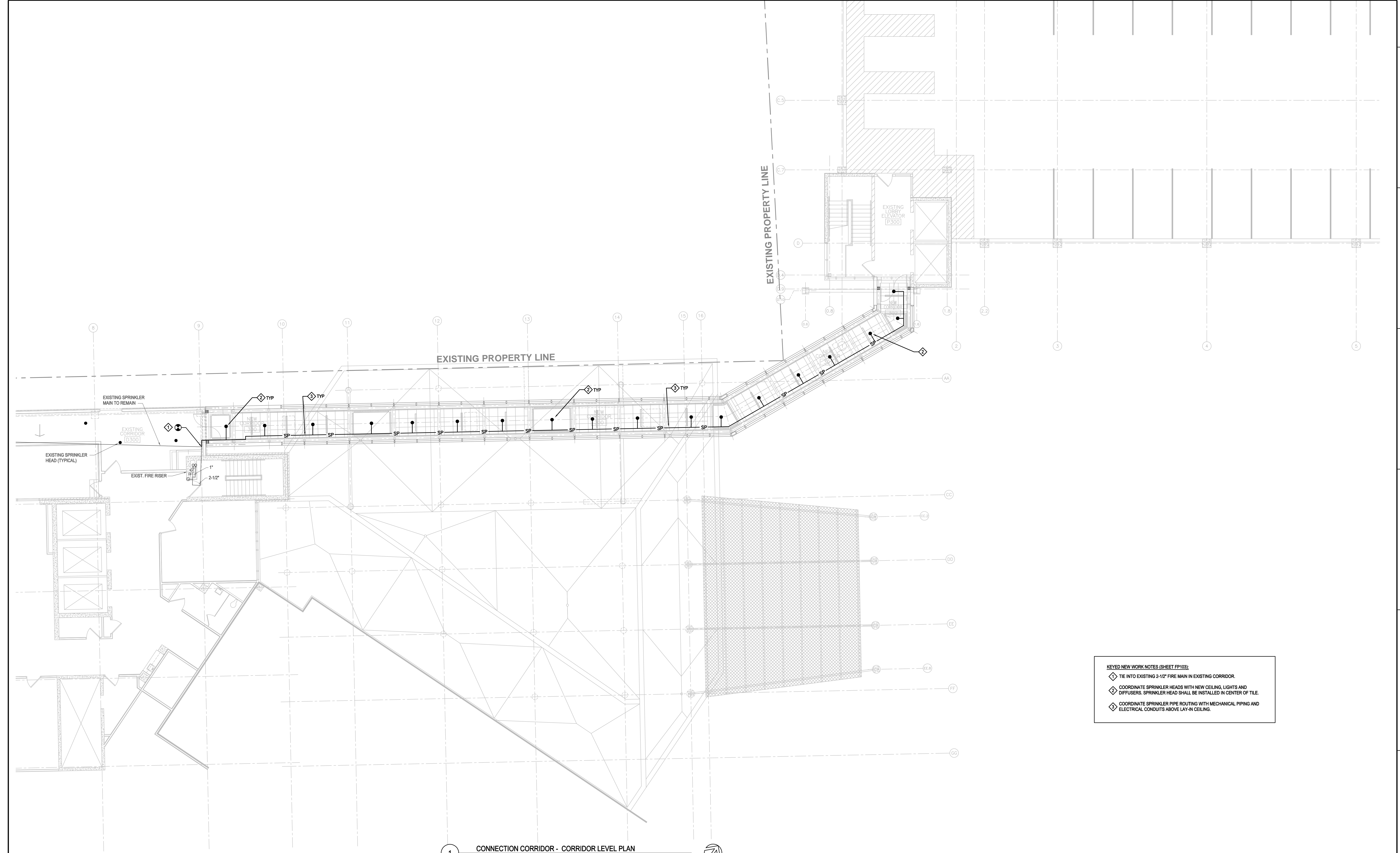
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Project Number	607-CSI-103
Building Number	

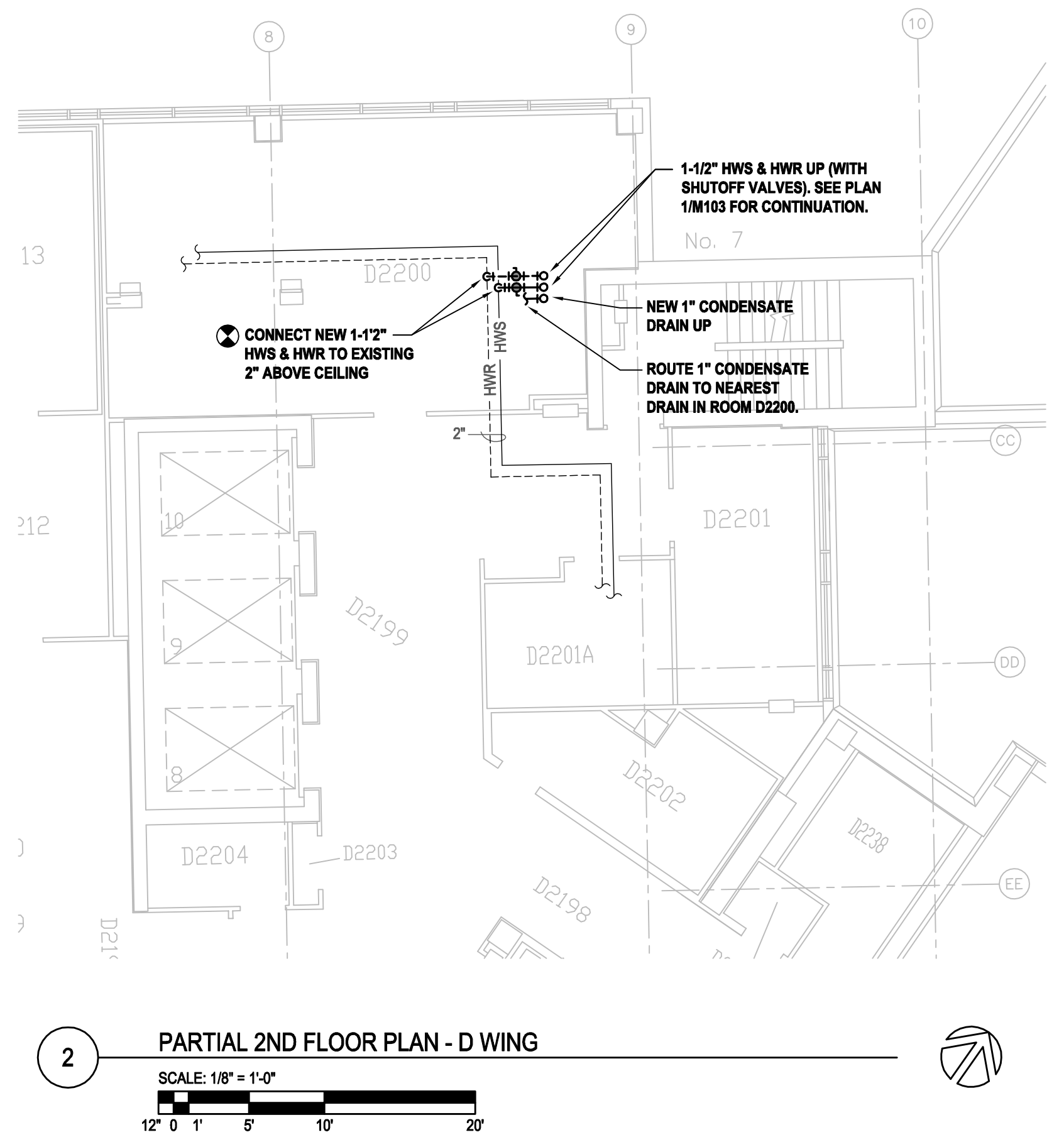
	Drawing Number
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Office of
Facilities
Management






100% CONSTRUCTION DOCUMENTS	
Project Number 607-CSI-103	<div>Office of Facilities Management</div> <div>  Department of Veterans Affairs </div>
Building Number -	
Drawing Number FP103	



1 CONNECTION CORRIDOR - CORRIDOR LEVEL PLAN

SCALE: 1/8" = 1'-0"


12' 0' 1' 5' 10' 20'


[illegible]

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Drawing Title Connection Corridor Corridor Level Plan		Project Title Patient Entrance Canopy/ Mental Health Connecting Corridor		Project Number 607-CSI-103	Office of Facilities Management
				Building Number -	
Approved: Project Director		Location Madison, Wisconsin		Drawing Number M103	
		Date April 12, 2012	Checked By: HEI	Drawn By: HEI	 Department of Veterans Affairs

NOTES:


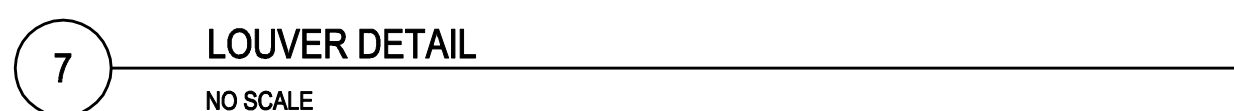
1. INCLUDE THE GRILLES AND COLLARS FOR SUPPLY AND RETURN AS INDICATED.
2. THE UNITS SHALL BE SUPPORTED WITH VIBRATION ISOLATORS.
3. THE UNITS SHALL INCLUDE A FLEXIBLE CONNECTION BETWEEN PIPE MAIN AND UNIT PIPING.
4. THE UNITS SHALL INCLUDE A THROW AWAY FILTER WITH ONE SET OF REPLACEMENT FILTERS. COORDINATE MOUNTING WITH SERVICE ACCESS REQUIREMENTS.
5. PROVIDE PREMIUM EFFICIENCY MOTORS.

NOTES:

1. ALL GRILLES AND DIFFUSERS SHALL NOT EXCEED NOISE CRITERIA NC-25 (BASED ON 100dB ROOM ATTENUATION) AND A MAXIMUM OF 0.1 INCH WG STATIC PRESSURE DROP.
2. BORDER TYPES SHALL BE COMPATIBLE WITH CEILING TYPES WHERE AIR DEVICE IS LOCATED, REFER TO ARCHITECTURAL PLANS AND ALL OTHER TRADES.
3. SEE PLANS FOR LOCATION AND AIR QUANTITIES OF EACH DEVICE.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. EACH SUPPLY, RETURN, EXHAUST DEVICE TO HAVE A DAMPER IN DUCT BRANCH TAKE-OFF. PRIOR APPROVAL REQUIRED BY ENGINEER TO USE OPPOSED BLADE DAMPER (OBD) IN AIR DEVICE.
6. ON SUPPLY THROWS, FIRST THROW VALUE IS 160 FPM TERMINAL VELOCITY. SECOND THROW VALUE IS 50 FPM TERMINAL VELOCITY.

NOTES:


1. SUSPENDED ABOVE CEILING, COORDINATE OUTDOOR LOUVER INSTALLATION AND PROVIDE INSULATION, DRAIN PIPING, FROST CONTROL AND TIE INTO BUILDING CONTROLS.
2. PROVIDE PREMIUM EFFICIENCY MOTORS.

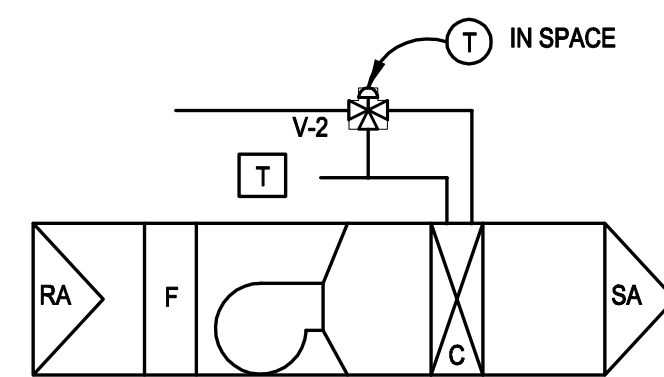
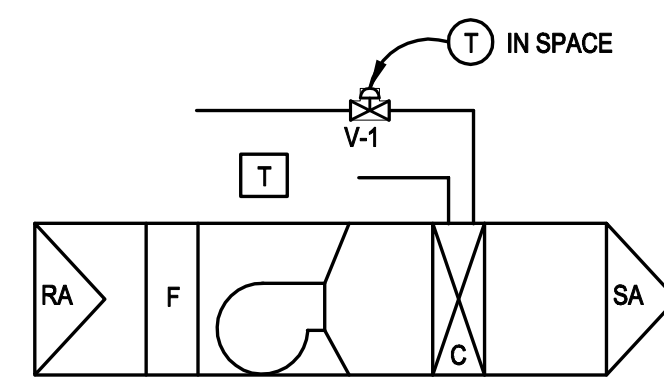
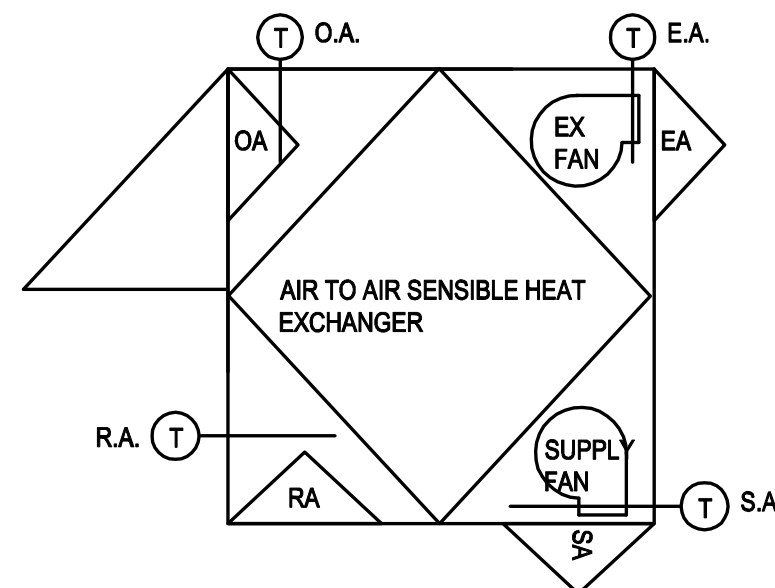


Dept. of Veterans Affairs
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Drawing Title	
Mechanical Schedules and Details	
Approved: Project Director	

100% CONSTRUCTION DOCUMENTS	
Project Number 607-CSI-103	<div>Office of Facilities Management</div> <div>  Department of Veterans Affairs </div>
Building Number -	
Drawing Number M301	



POINTS LIST

[illegible]

SEQUENCE OF OPERATION

1. THE ERV UNIT IS PRE-WIRED SO THAT ON A SIGNAL FROM THE DDC SUPPLY FAN, EXHAUST FAN, ARE ENERGIZED. THE MOTORIZED OUTDOOR AIR DAMPER AND MOTORIZED EXHAUST DAMPER ARE OPEN.
2. THE UNIT SHALL OPERATE TO MAINTAIN A THERMOSTAT SETPOINT (ORIGINAL SETPOINT IS 80 °F FOR SUMMER AND 68 °F FOR WINTER).
3. THE UNIT SHALL OPERATE DURING THE SUMMER ONLY IF THE OUTDOOR AIR TEMPERATURE IS LESS THAN THE SUMMER SETPOINT (ORIGINAL SETPOINT OF 80 °F).
4. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 23 °F, THE UNITS FROST CONTROL SHALL BE ENERGIZED. THE FROST CONTROL WILL SHUT DOWN THE SUPPLY FAN AND EXHAUST FAN UNTIL THE OUTSIDE AIR TEMPERATURE RISES TO 23 °F.
5. WHEN THE AIR SHUTS OFF THE OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL CLOSE TO ELIMINATE THE MIGRATION OF UNWANTED OUTDOOR AIR INTO THE LINK.
6. EACH FILTER BANK (OUTDOOR AIR AND EXHAUST AIR) SHALL BE MONITORED BY A DIFFERENTIAL PRESSURE GAUGE ACROSS THE FILTER BANK.
7. UNIT SHALL OPERATE AT LOW FAN SPEED. ON A RISE IN SPACE TEMPERATURE ABOVE 80 °F, UNIT FAN SPEED SHALL SWITCH TO HIGH SPEED.

2 SEQUENCE OF CONTROL FOR ERV

NO SCALE

POINTS LIST

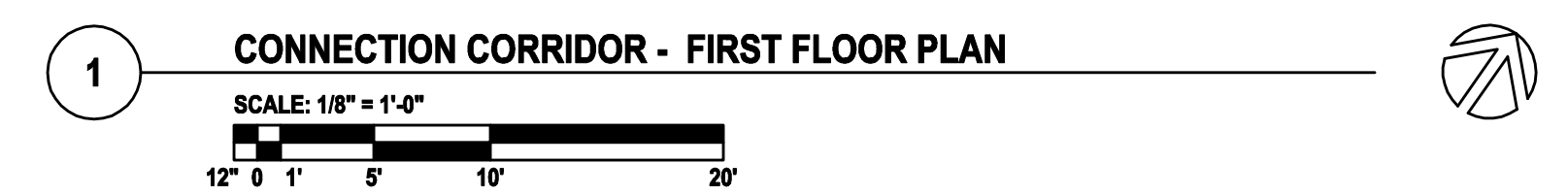
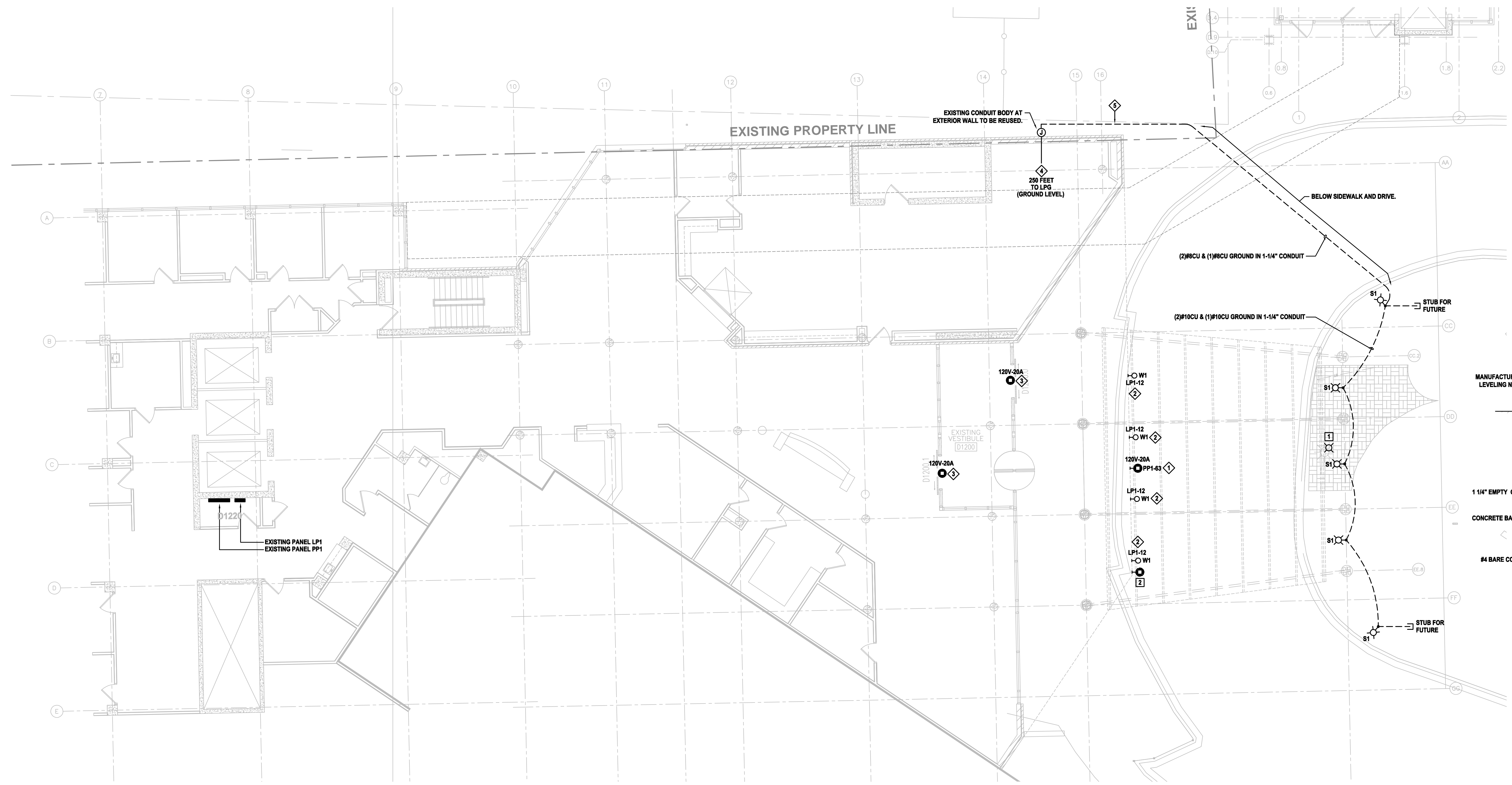
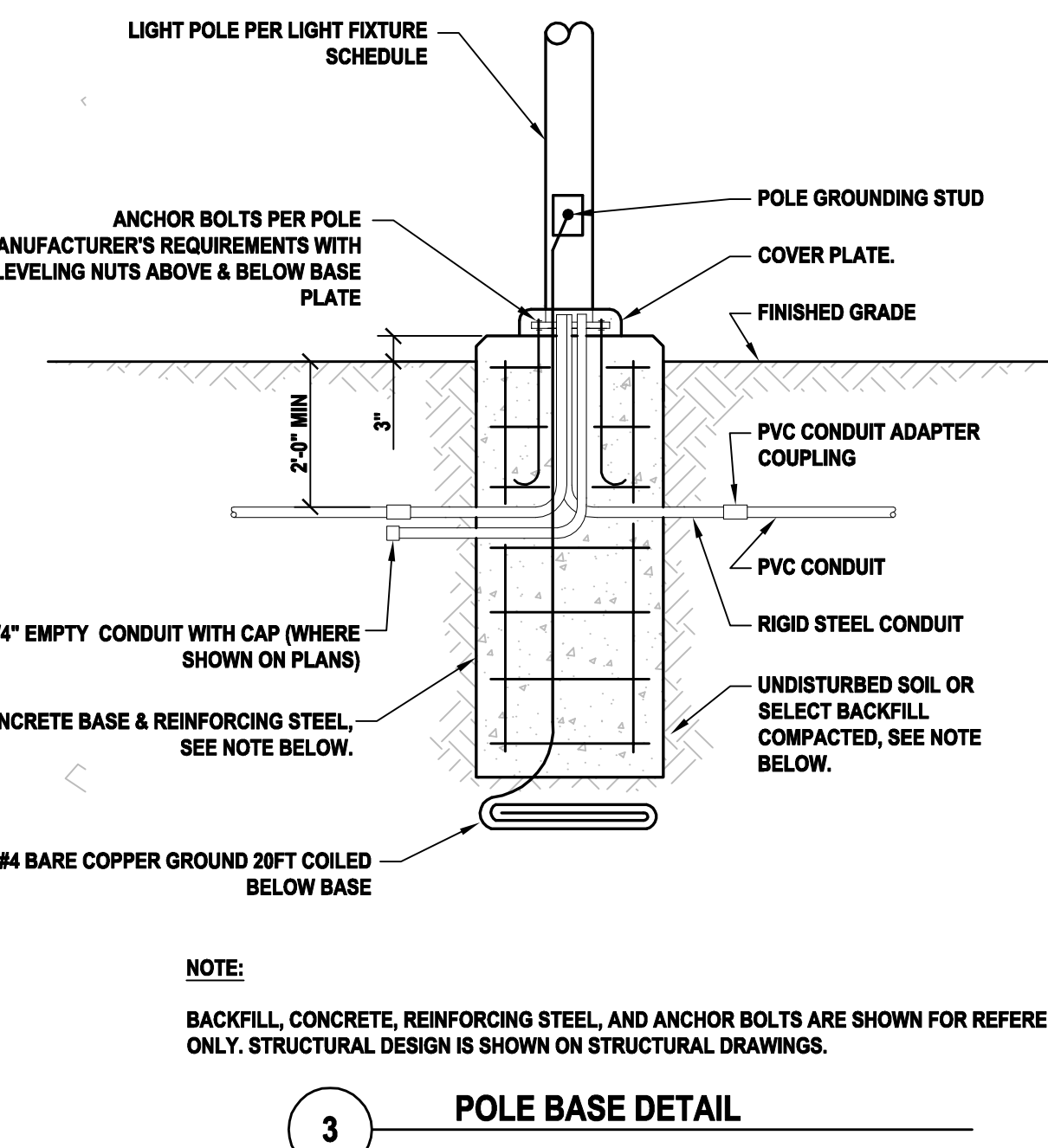
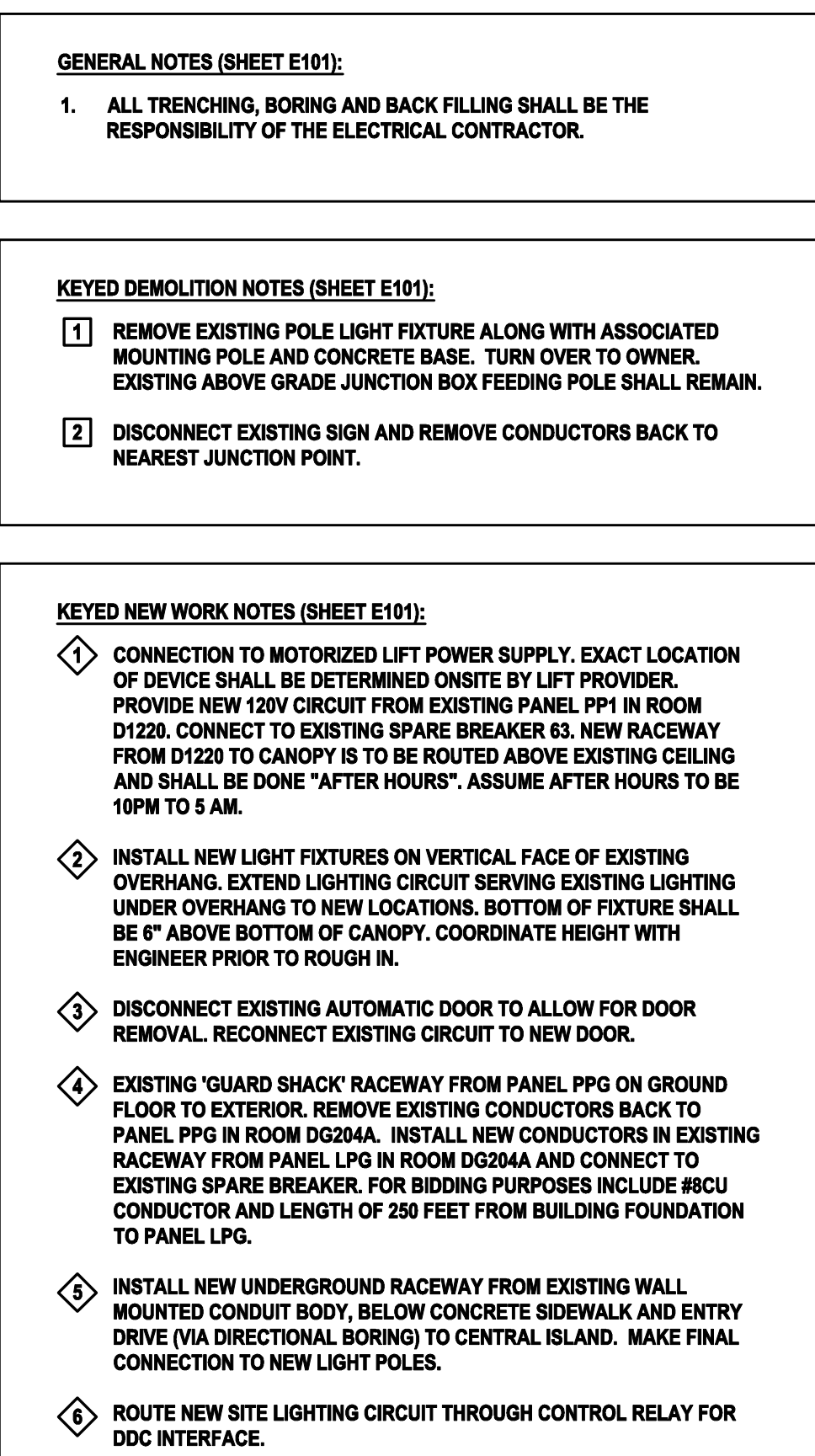
OCCUPANCY SCHEDULE:		HARDWARE ①				SOFTWARE			
		INPUT		OUTPUT					
NIGHT SETBACK SCHEDULE:		DIGITAL	ANALOG		DIGITAL	ANALOG		ALARMS ①	APPLICATION PROGRAMS ②
NOTES:									
①	ALL HARDWARE AND ALARM POINTS SHALL BE REPRESENTED ON THE GRAPHICS DISPLAY								
②	ALL APPLICATION PROGRAMS SHALL BE FULLY FUNCTIONAL USING DATA APPLICABLE TO THIS PROJECT.								
③	SIGNAL FROM ONE SENSOR MAY BE SHARED AMONG SEVERAL UNITS.								
EQUIPMENT DESCRIPTION:									
FAN COIL UNIT									
TEMPERATURE SENSOR		•							
TEMPERATURE CONTROL VALVE									

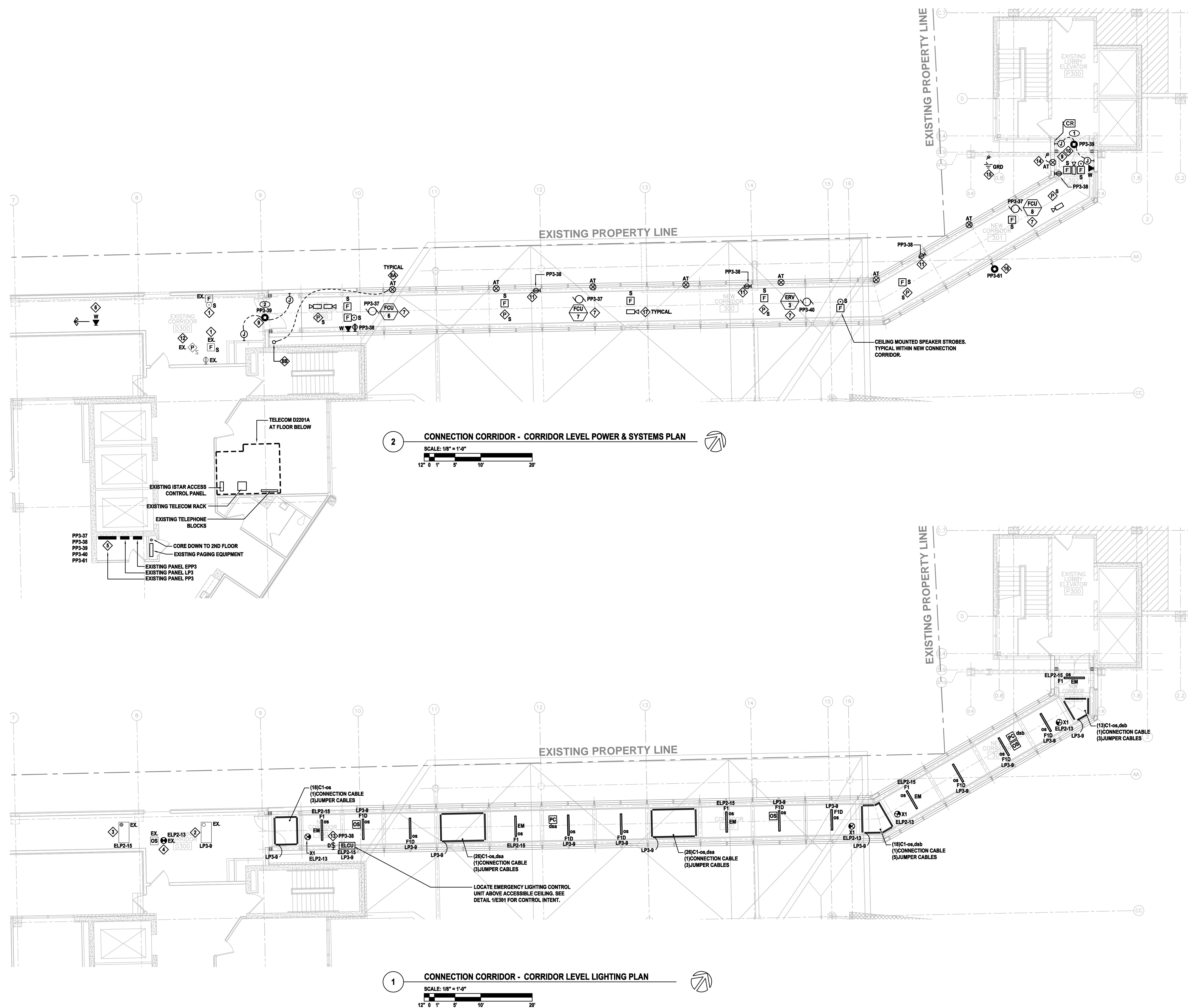
SEQUENCE OF OPERATION

1. PROVIDE A SPACE SENSOR THERMOSTAT FOR EACH UNIT, ON A DROP IN SPACE TEMPERATURE BELOW SETPOINT, ELECTRIC TEMPERATURE CONTROL VALVE SHALL MODULATE OPEN.
2. A STRAP-ON ELECTRIC THERMOSTAT, LOCATED ON THE HWR PIPE, SHALL CYCLE THE FAN ON WHENEVER HWR TEMPERATURE IS ABOVE 95 F.
3. THE SET POINT SHALL CHANGE BASED ON A DAY/NIGHT CYCLE. THE TIME OF DAY AND DAY OF WEEK SHALL BE FROM THE GLOBAL SHARED DATA IN THE DDC SYSTEM PART OF THE MENTAL HEALTH CENTER BUILDING.
4. A THREE-WAY CONTROL VALVE SHALL BE LOCATED ON FINAL FAN COIL UNIT #8.

1 FAN COIL UNIT (HEATING ONLY) - FCU

NO SCALE

[illegible]

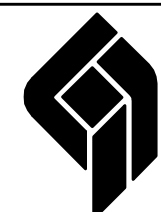


- GENERAL NEW WORK NOTES (E103):**
- 1. LIGHTNING PROTECTION SHOWN IS FOR SCHEMATIC INTENT. ELECTRICAL CONTRACTOR SHALL UTILIZE A CERTIFIED LIGHTNING PROTECTION DESIGNER/INSTALLER TO PROVIDE COMPLETE SYSTEM DESIGN MEETING THE STANDARDS OF NFPA 780 AND UL.**
 - 2. REFERENCE SHEET E301 FOR ELECTRICAL DETAILS AND SCHEDULES.**

- KEYED WORK NOTATIONS (SEE SHEET E103):**
- 1 EXTEND EXISTING FIRE ALARM NOTIFICATION AND INTERCOM CIRCUIT TO DEVICES LOCATED IN NEW CONNECTOR CORRIDOR.
- 2 EXTEND EXISTING NORMAL, POWER LIGHTING CIRCUIT TO NORMAL LIGHTING AND CONTROL IN NEW CONNECTOR CORRIDOR.
- 3 EXTEND EXISTING EMERGENCY POWER LIGHTING CIRCUIT TO EMERGENCY LIGHTING AND CONTROL IN NEW CONNECTOR CORRIDOR.
- 4 EXTEND EXISTING EMERGENCY POWER EXIT LIGHTING CIRCUIT TO EXIT LIGHTING IN NEW CONNECTOR CORRIDOR. REPLACE EXISTING DEVICES WITH DOUBLE FACE EXIT, CHEVRONS TOWARDS DOOR.
- 5 FURNISH AND INSTALL, (3) 20-A IP BREAKERS IN EXISTING PANEL. NOTED TO FEED NEW CIRCUITS. EXISTING PANELBOARD IS WESTINGHOUSE MK SERIES.
- 6 NEW DEVICE IN EXISTING CORRIDOR, APPROXIMATELY 100 FEET "PLA W/ESH". COORDINATE EXACT LOCATION WITH VA PRIOR TO ROUGH IN.
- 7 FURNISH AND INSTALL NON-FUSED DISCONNECT AT EQUIPMENT ABOVE ACCESSIBLE CEILING.
- 8A INSTALL NEW AIR TERMINALS ON CONECTOR ROOF. INTERCONNECT TERMINALS WITH MAIN ROOF CONDUCTOR AS OUTLINED IN SPECIFICATION.
- 8Bb INSTALL VERTICAL CONDUCTOR FROM EXISTING LIGHTNING PROTECTION SYSTEM AT HIGH ROOF, DOWN MASONRY STAIR TOWER TO CONNECTOR ADDITION ROOF.
- 9 CONNECTION TO MOTORIZED DOOR OPERATOR. INSTALL RACEWAY FROM DOOR OPERATOR TO WALL MOUNTED ACTIVATION DEVICES. OPERATOR AND ACTIVATION DEVICES PROVIDED BY GC, WIRED BY EC. REFERENCE DOOR DETAILS ON SHEET E301.
- 10 ACCESS CONTROL AT THIS DOOR SHALL BE INTERLOCKED WITH MAIN ROOF MOTOR OPERATOR. OPERATOR MOTOR SHALL NOT BE ALLOWED TO RUN UNTIL A VALID ACCESS CONTROL CREDENTIAL IS PRESENTED.
- 11 RECEPTACLE SURFACE MOUNTED TO COLUMIN. PRIOR TO INSTALLATION, PAINT CONDUIT AND ALL ASSOCIATED MOUNTING HARDWARE TO MATCH COLUMIN COLOR.
- 12a EXTEND EXISTING PAGING CIRCUIT TO NEW PAGING SPEAKERS IN CONNECTOR CORRIDOR.
- 12b DIMMER TO CONTROL TYPE C1 LED COVE LIGHTING. LOCATE REVERSE PHASE, ELEG POWER MODULE ABOVE ACCESSIBLE CEILING. POWER SUPPLY WIRING 120VAC, 15 AMP. CIRCUIT. REFERENCE DETAIL, NEW FOR LIGHTING CONTROL DETAILS.
- 13 CONNECT MAIN ROOF CONDUCTOR TO STRUCTURAL STEEL COLUMIN/BEAM ASSEMBLY TO SERVE AS DOWN CONDUCTOR.
- 14a INSTALL GROUND ROD AT COLUMIN FOOTINGS AND CONNECT TO STEEL COLUMIN.
- 14b BACK-LIT SIGNAGE FURNISHED BY SIGN FLOORLINE. CONNECTED TO VENTILATION SUB-CONTRACTOR, NEAR FLOOR LINE. CONNECTED TO CIRCUIT INDICATED. SIGN FURNISHED WITH INTEGRAL DISCONNECT.
- 17 NEW VIDEO SURVEILLANCE NETWORK CAMERA, FURNISH AXIOM COMMUNICATIONS P3301 FIXED INDOOR MINI-SCOPE SERIES OR APPROVED EQUIV. MAKE & TELECOM ROOM D2210A ON 2ND FLOOR

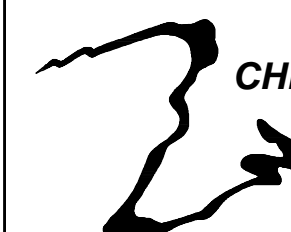
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Drawing Title	Connection Corridor
	Corridor Level Plan

Approved: Project Director

Project Title	Patient Entrance Canopy/ Mental Health Connecting Corridor
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Location	Madison, Wisconsin
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Date
April 12, 2012

Checked By:	HEI
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Drawn By:
HEI

100% CONSTRUCTION DOCUMENTS

Project Number
607-C SI-103

Building Number

Drawing Number	
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Office of
Facilities
Management



